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COST OF OPERATING FARM MOTOR TRUCKS ON GRAIN FARMS
(Northern Great Plains and Pacific Northwest, 1933)

By R. S. Washburn, Assistant Agricultural Economist

Washington, D. C. December 1936

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STATEMENT OF COOPERATION AND ASSISTANCE

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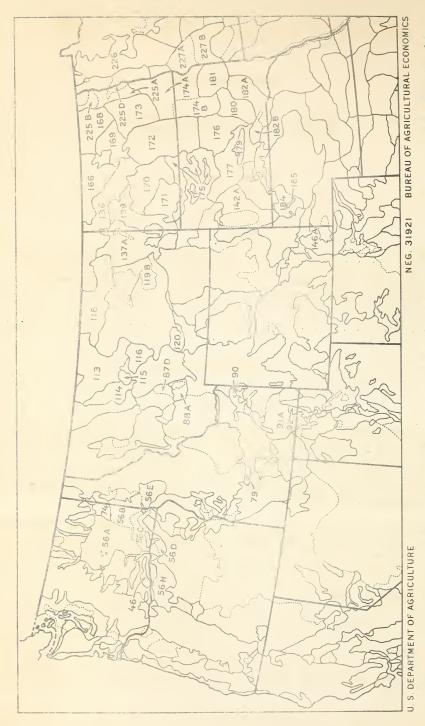
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INTRODUCTION

Successive years of low farm incomes have seriously reduced the resources of many farmers in the spring wheat regions of the Northern Great Plains and of the Pacific Northwest. Because of the need for adjustment in the organization and operation of grein farms in these regions and in the light of changing economic conditions, information with reference to farm organization and farming practice was obtained.

The study was made in April, May, and June of 1834 and, for the most part applies to the crop year 1833. The field data were obtained by personal interviews with 1,674 farm operators in grain-producing areas of the Northern Great Plains and of the Pacific Northwest. The farming areas surveyed, shown in figure 1, are those outlined in United States Department of Commerce, Bureau of the Census Bulletin "Types of Farming in the United States". The farmers interviewed gave detailed information on the organization and operation of their farms, such as acreage of wheat and other crops grown, a history of crop yields over a period of years, the practices employed in the production of wheat and other crops; the numbers and kinds of livestock; the kinds and quantities of livestock products; an inventory of the kinds and quantity of equipment on the farm; the duty of machinery;; and the cost of operating power equipment.

As the study aimed to show the methods of growing and harvesting crops, particularly wheat, the sample of farms may show a larger acreage



Type-of-farming areas where study was made of the cost of operating farm motor trucks on grain farms. (Areas are those outlined in United States Department of Commerce, Bureau of the Census Bulletin "Types of Farming in the United States 1930.") figure I.-

of wheat and a higher proportion of the land in crops than would a county average. No particular effort was made for any other selection, however, and it is believed that the records obtained are typical of grain farms in the type-of-farming areas studied.

In certain sections of the Northern Great Plains, particularly western North Dakota, eastern Montama, and many areas of South Dakota, conditions of extreme drought prevailed in 1933. As a result very little harvest was reported in the drought areas, and the harvest work done with power equipment was abnormal. The use of equipment in a normal season rather than to that reported in 1933 has been used in calculating the cost of operating power equipment.

In many areas the use of large-scale power equipment was common and constituted a large part of the farm expense. For this reason a series of reports dealing with farm equipment is being published.

The purpose of the present report is to show the extent to which farm motor trucks are used and what present owners, as well as prospective purchasers of motor trucks, can reasonably expect in the way of cost of using motor trucks on relatively large grain farms. The other publications in the machinery series are:

- 1. Utilization of tractors and cost of tractor power on grain farms (Northern Great Plains and Pacific Northwest, 1933).
- 2. Utilization of combined harvester-threshers and cost of harvesting smill grains with a combine (Northern Great Plains and Pacific Northwest, 1933).
- 3. Tillage, planting, and harvesting equipment on grain farms and rates of doing field work with these implements when drawn with horse and with tractor power (Northern Great Plains and Pacific Northwest).

NUMBER AND SIZE OF FAR.S HAVING MOTOR TRUCKS AND NUMBER AND SIZE OF FARMS NOT HAVING MOTOR TRUCKS. BY TYPE-OF-FARMING AREAS

Trucks were used in practically all areas surveyed in the Northern Great Plains, but the greatest numbers were on farms in the more westerly areas (table 1). In Minnesota about 15 percent were farms on which motor trucks were used, in the eastern and central parts of North Dakota and South Dakota about 20 percent, and in the western part of North Dakota and South Dakota about 40 percent. In the Montara, Wyoming, and Nebraska areas approximately 50 percent of the farms were equipped with motor trucks and for the entire region 36 percent of the farm operators used trucks whereas 64 percent did not. In all areas except one the crop acres per farm on farms where trucks were used exceeded the acroage on farms where trucks were not used. For the region as a whole the crop area per farm was approximately 100 percent larger on farms where motor trucks were used than on farms where motor trucks were not used.

In the Pacific Northwest motor trucks were used in all areas (table 2). For the entire region 45 percent of the farm operators used motor trucks. The crop area per farm averaged 83 percent larger on farms where motor trucks were used than on farms where motor trucks were not used.

Table 1. - Number of farms having motor trucks and not having motor trucks, and crop area per farm on selected farms by type-of-farming area; Northern Great Plains, 1933

	type-o	f-farming ar	ea, Northe	em Great E	Plains, 19	133
		eporting :				
	tru		truc			farms
type-of-farming		:Crop area:	-	Crop area:	:	Crop area
	Farms	:per farm :		per farm		per farm
	Number	: Acres :	Number	Acres	Number :	Acres
		: :	:	-		
Minneso ta		: :			:	
	: 6	: 311 :	37			305
	-	: - :	- (: 160		160
225D	5 6	: 552 :	15	257	20	331
227A	5	: 324 :	19		25	245
227B	3	: 389 :	- /	: 179 :		201
		: ;		:	=	:
	4	: 629 :	8	356	12	445
	7	: 565 :				445 386
	7	: 426	. 7		52	375
- (0	. 1	320		- /		511
(-	15	: 665		- ^	_ (500
	9	: 428 :	. /			346
	10			350	• 77	282
m den a		: 344 :		, ,		
		: 620 :			: 48	433
2	32	: 555 :	-0		1	424
	: 11	: 615 :			,	: 458
	18	: 687 :	22	<i>3</i> 45	: 40	499
		: :		•	•	•
	6	: 420 :	-			311
	-	: - :	1,			: 208
	5	: 550 :		217		: 382
	8	: 328 :				: 279
	15 8	: 796 :	26	: 457	: 41	: 581
179		: 753 :	11		: 19	510
1823	5	: 718 :	21		: 26	358
175	10	: 684 :	19		: 29	: 484
2 404	13	: 544 :				: 446
		; ;		:		•
O .	18	: 450 :			4 7	352
- 0 -	11	: 1025 :				352
		: ::		-		:
	10	468	24	0.0		341
	9	: 1019 :	- 1			606
- ^	19	: 407				370
	34	820	,	- /		720
	35	628			. /	543
		. 1108	11		- (1004
7	23	: 1198 :	_			1094
0-7-	20	: 642 :	21		: 41	478
0.0	7	: 533 :		: 214	22	315 384
001.	15	: 490 : 824		326	42	304
120	6		1	356	20	496
Wyoming		: :	_	:		(00
1464	: 24	: 745 :			_	680
G	•	: :				<u> </u>
Total or	:	: :	0			476
verage	453	: 643 :	817	321	1270	436

Table 2. - Number of farms having meter trucks and not having meter trucks and crop area per farm on selected farms by type-of-farming area,

Pacific Northwest, 1933 Forms reporting : Forms without trucks trucks State and All farms :Crop area: type-of-farming: :Crop area: :Crop area Farms : per farm : Farms Farms :per farm : Number : Number : Acres Number Acres Oregon 56H 15 1637 26 1004 1236 41 27 1280 56D 30 3 449 1197 Washington : 872 46 1167 21 1322 11 : 56C 860 14 2243 27 41 1332 63 56A 33 36 1074 30 1227 935 : 56B 22 58 342 288 554 : : : : 423 74 17 24 474 : : : 342 Idaho : : : : : 742 1186 56E 18 506 15 33 310 79 8 424 779 15 : . 755 368 90 10 744 23 13 750 : : 18 557 740 440 91A 11 29 : : 331 92A 2 13 15 181 Total or average: 1133 223 619 404

CROPS PRODUCED ON FARMS HAVING MOTOR TRUCKS, AND NUMBER AND SIZE OF TRUCKS BY TYPE-OF-FARMING ARLAS

In the Worthern Great Plains, on farms where motor trucks were used, the proportion of the crop area utilized for the production of different crops varied to a considerable extent in, as well as between different type-offarming areas. The agriculture of the region as a whole, however, may be classified as primarily a cash grain type-of-farming with wheat the major crop (table 3). Proportionately more of the total crop area was devoted to wheat and summer fallow in central and western Montana and in southe stern Wyoming than in other areas studied. In southeastern Wyoming about 15 percent of the crop area was devoted to corn. Here, as well as in the central and western areas of Montam, few crops other than wheat were grown. From west to east we note that a rather decided change in the cropping system begins to appear. Instead of alternating wheat with summer fallow, the common practice is to grow wheat in combination with corm, pats, and barley, particularly in western Minnesota. The greatest concentration of corn acreage was in southwestern Minnesota and eastern North and South Dakota. A considerable potato acreage was grown on some farms in northwestern Nebraska and western Minnesota. Other crops grown to a limited extent in most type-of-farming areas were rye, spelt, alfalfa, and sweetclover. Trucks of 1 and 12 ton capacity were the ones in general use.

Table 3. - Number of farms and crop area of farms having motor trucks, and number and size of motor trucks, by type-of-farming areas, Northern Creat Plains, 1933 1/

State and type-	:	Size		Crop	area per f	arm	
of-farming	: Farms	of	Leave 1		: Summer :		-, .
area s	:	farms	Wheat	crops	: fallow :	Idle	Total
	: Number	: Acres	Acres	Acres	: Acres :	Acres	Acres
Minnesota	:	:	:	:	:	:	
225A	: 6	344	88 :	211	: 12 :	- :	311
225D	: 5	650	208	280	: 42	22	552
227A	: 6	377	61	262	: 1 :	_	324
227B	: 3	477	97	278	: 13	l :	389
North Dakota	•						
225B	4	676	201	341	: 74	4	620
173	•	_	30E		73	-	565
174A	6		171	233	22	-	426
168	: 1	-	120	140	60	_	320
169	: 15		460	149	: 51	5	665
				206	: 6	_	449
170	: 10	•	217	127	•		344
171				182	3	8	620
	: 19	-	427		: 60		
	: 32			103			
139			449	71	: 86	111	615 687
166	: 18		: 301	197	: 78 :	777	687
South Dakota	:		:	:	:	3.7	4.00
181	: 6		: 114	27 2	23	: 11	: 420
174B	: 5.		253	297	: -		: 550
180	: 8		31	235	: -		: 328
176	: 14	: 1750	346	386	: 51	5	788
179	•	: 2720	: 488	259	: 6	: ~	753
182B	: 5	: 832	375	343	: -	-	: 718
175	: 10	: 1090	: 435	205	: 8	36	: 684
142A-177	: 12	: 960	: 277	225	: - :	13	: 515
Nebraska	:	:	:	•	:		:
184:185	: 28	: 937	: 288	: 330	: 41	22	: 681
Montana	:	:	:	:	:	•	:
137A	: 10	: 742	: 299	: 106	: 28	35	: 468
119B	: 8	: 1317	: 772	: 199	: 125	: -	: 1096
118	: 18	: 880	: 220	85	: 60	42	: 407
113	: 32	: 1533	: 478	: 60	: 226	87	: 851
114	: 34	: 813	: 321	: 64	: 244	: -	: 629
115	: 23	: 1396	: 636	: 54	: 499	9	: 1198
116	: 20	805	: 444	: 29	: 150	: 19	642
87D+88A	: 21	: 740		: 38	: 229	: 12	: 509
120	: 6	: 3653	464	: 89	: 271	: -	: 824
Wyoming	:	:	:	:	:	:	:
146A	: 24	: 1106	332	: 161	: 248	: 4	: 745
Total or average	442	: 1029		: 156	: 121	: 20	: 648

The number of reports represented in this table and in all succeeding tables for the Northern Great Plains is somewhat less than that shown in table 1. Certain reports were omitted because of an insufficient number of trucks of certain sizes, and because of incomplete data on the cost of operation of certain motor trucks.

Table 3. - Number of farms and crop area of farms having motor trucks, and number and size of motor trucks, by type-of-farming areas, Northern Great Plains, 1933 1/

and size of m			hv tvo									
State and	:	:	Pron	ortion	of cr	on area	9	: Num	her o	f mot	or tr	ucks
type-of-	:	:Size	1105	ner	farm	op 0.100		:		y siz		uon o
farming	:Farms	: of :	:	Other:	Summar	:	:				: 1½	:
areas	:	farms:	Wheat:	crons:	fallow	: Tale:	Total		:ton	ton:	:ton	:Total
41045	:Num-		Per-:									
			cent:									
Minnesota			:								:	
225A	: 6		28.3:			: -			: 55		-	: 6
225D	: 5		37.7:						3		_	
227A	: 6		18.8:				100		: 4			_
227B	: 3		24.9:				100		: 2			_
North Dakota	7			;							-	:
225B	: 4		32.4:				-	-	-		-	; 4
173	7		53.6:				100		: 4			
174A	: 6		40.1:									
168	: 1		37.5:				: 100					
169	: 15		69.2:				100		7			: 15
	: 7		52.8:				: 100		5		_	
	: 10		63.1:						: 8			: 10
171			68.9:			1.3						: 20
136	: 32		68.5:						: 25			: 34
139	: 11		73.0:									: 11
166	: 18		43.8:						: 14		-	: 18
South Dakota						• ±0•±						:
	: 6		27.1:			2.6			3			
174B	: 5		46.0:				100		: 1			
	: 8:		27.7:				100		5			
176	-		43.9:				100				-	: 15
179			64.8:				: 100		: 4			
182B	: 5		52.2:				100		3			_
175	-		63.6			5.2			. 9			: 10
142A - 177	: 12		53.8:			2.5			9		_	: 14
Nebraska						· ~		:		:	:	:
184 - 185	: 28 :		42.3:			3.2		•	: 18		: 100	29
Montana	:					:			:			:
137A	: 10		63.9:			: 7.5			• • 8			
119B			70.4:						. 6			
118	. 18 :		54.1:						_			: 18
113			56.2:						29		_	
114	: 34		51.0:						: 16		: 18	
115			53.1:						: 16		: 11	
116			69.2:						: 16			; 20
87D - 88A	: 21		45.2:						: 15			
120			56.3						: 4			
Wyoming	:			10.0.		-	100		:		:	:
146A	: 24		44.6:			5	100	• _	: 14	_	: 13	: 27
Total or		1100		£1.0.		:					:	:
4			54.1:	-		: 31		-	-	-		:466
		1000.	01.1.	ωI•I•	10.1	· 0 • T .	100	•	. 050			

^{1/} The number of reports represented in this table and in all succeeding tables for the Northern Great Plains is somewhat less than that shown in table 1. Certain reports were omitted because of an insufficient number of trucks of certain sizes, and because of incomplete data on the cost of operation of certain motor trucks.

In the Pacific Northwest wheat was the principal crop grown (table 4). It was alternated with summer fallow. Wheat and summer fallow occupied most of the crop area. As in the Northern Great Plains, trucks of 1 and 12 ton capacity were the ones in general use.

COST OF OPERATING FARM MOTOR TRUCKS

In presenting this information the various elements of cost are treated separately and reported in quantity factors wherever possible since costs expressed as money units are subject to considerable change especially during periods of wide price fluctuations. The items which have been considered as operating cost are fuel, oil, repairs, license, tires and tubes, insurance, depreciation, and interest. The quantities and cost of these items per truck per year are averages, computed by dividing the total expense incurred for a given item of cost by the total number of trucks represented. The sum of these items of cost is the average annual cost of operating a truck. The yearly cost divided by the number of miles a truck was driven during the year is the average cost of operation per mile. The miles of travel per truck per year is a normal figure and does not necessarily reflect the miles traveled in 1933.

Tables 5 to 8 show the itemized cost of operating farm motor trucks of different sizes in the Northern Great Plains and tables 9 to 12 show corresponding data for the Pacific Northwest. The cost of fuel and oil shown in tables 5 and 9 is based on normal annual use and the prices paid for fuel and oil during the 1933 season. The cash repairs shown in tables 6 and 10 represent normal charges rather than actual expenditures in 1933. The cost of hired labor and other labor on truck regains shown in these tables reflects the normal annual days of labor on repairs at prevailing 1953 rates for labor. Depreciation shown in tables 7 and 11 was calculated by dividing the first cost of the truck by its estimated years of useful life. Interest shown in these tables was charged at 6 percent of one-half of the average first cost of the truck.

For the Northern Great Plains fuel and oil constituted 18.1 percent; cash repairs 9.8 percent; license, tires, tubes, and insurance 15.6 percent; owner and family labor on repairs 1.9 percent; hired labor on repairs 0.3 percent; depreciation 41.7 percent; and interest 12.6 percent of the total annual cost of operating fam motor trucks.

For the Pacific Northwest the percentage distribution of the total annual cost was as follows: fuel and oil 20.7 percent; cash repairs 11.7 percent; license, tires, tubes, and insurance 18.4 percent; owner and family labor on repairs 1.8 percent; hired labor on repairs 0.5 percent; depreciation 37.1 percent; and interest 9.8 percent.

Operators of farm motor trucks who have no indebtedness on their trucks may consider fuel and oil, cash repairs, license, tires, tubes and insurance, and hired labor on repairs as cash costs, and owner and family labor, depreciation, and interest as non-cash costs. For those truck operators who have little, if any, equity in their trucks the cash outlay will include practically all expense except owner and family labor.

Table 4. - Number of farms and crop area of farms having motor trucks, and number and size of motor trucks, by type-of-farming areas, Pacific Northwest, 1933 1/

1/ The number of reports represented in this table and in all succeeding tables for the Pacific Northwest is somewhat less than that shown in table 2. Certain reports were omitted because of an insufficient number of trucks of certain sizes, and because of incomplete data on the cost of operation of certain motor trucks.

Table 5. - Quantity and cost of fuel and cylinder oil consumed by motor trucks of different sizes, Northern Great Plains $\frac{1}{2}$

			44 4 4							
Size of		:	•	0	_					
	: Motor	: Annual		Gasoli				linder		
truck	trucks	: use	: Per	truck :	Per 10	00 miles:	Per	truck:	Per 1	00 miles
(tons)			: per :	vear :	of t	ravel	per ;	year :	of	travel
	Num-	:	:Gal-	:Dol- :			Gal-			
	ber	: Miles	:lons	:lars	lons	lars	lons	:lars	lons	:lars
		. 1111100			10110	. 1010	. 10119			
3 4	6	1000	• 70	17 61	77.0	• 7 7/7 .	1 7	.7 22	1:7	• 72
4	0	. 1000	• (9	:13.04:	1.9.	: 1.37	4.1	: 5.22	•4/	• 54
		:	:	:				:		:
:		•	:	•	0.	:		: ;		:
1 :	300	: 2427	: 193	: 32 . 63:	8:0	1.34	7.5	:4.64:	.31	: .19
:		:	:	: :		:	:	: :		:
:		:	:				:	: :		:
14	17	: 2682	: 238	.47.28	.8.9.	1.5/	7.9	:5.43	.29	20
-4	- 1		• 4.54			• -•/-	. (•)	•)• ¬) •	•-)	
		•								
- 1	1.47	0(1)1	200	. 70	0 0 .	70	.0 .		70	• • 0
12 :	: 143	: • 2694 ·	: 220	57.55	0.2	1.59	: 0.1	:4.95	. 30	: .10
:	•	:	:	: :	;	:	;	: :		: .
		:	:	: :		:	:	:		:
		:	:	:				:		:
Total or	3	:	:	: :				: :		:
average	466	: 2500	: 201	:3/1.1/1	8.0	1.37	7.7	.4.75	. 31	19
				·)4 · +4 ·		1.)(1 • 1	TILL)

^{1/} Based on normal consumption of gasoline and cylinder oil, at prices paid in 1933.

Table 6. Cost of cash repairs, license, tires, tubes, and insurance, and labor on repairs for motor trucks of different sizes, Northern Great Plains

																						-
		Cost 3/	Per:	100	miles	Jo	travel:	2/	Dol-	lars		.26		.19	ľ	01.		.18			13	
		OD	••	Per:	:truck :	per:		3/)01- :	lars:	••	2,58:	••	4.52		00.00	••	4.97	••	••	4.60:	
	irs	••	Per	100	miles:	: of :	:year :travel:year	3/		Days: Days:	• •	.03:	••	.01		TO.	••	.01	•	••	.01	
	Labor on repairs	Hired		Per:	: truck:	: ber :	year:	: 2/:		: Days:		.3	••	3		ဂ	••	.4.			.3	
	abor			Re-	ports				Num-	ber	•••	c3		. 52	ι	Ω		33			94	sdous
,	L	illy :	Per:	100	100 :ports:truck::miles:ports:truck:miles	of:	:year ::travel	3/:	,	Days.: Days:		.10:	••	:60-		90	••	.08	••	••	•08:	in machine shops.
		and family		Per ·: 100;	bruck:	: per :: of	rear .:	. /9	1	Days.	••	1.0	••	2.1	i.	C - T	••	2.2			2.1	s in me
		Owner a	••	: Re- :	ports:	••	7:	••	Num-:	ber:	••	4:	••	: 692		·		123:	••	••	••	repairs
	tubes,:		••	Per:	100	miles:	of:	travel:	: Dol- :	lars:	••	2.32:	••	1.23:	i i	T .00:		1.50:	••	••	1.34: 413	or on
	:License, tires, tubes,	: and insurance	••	Per:	truck:	ber:	year:			lars:		23.21:	••	29.97:	 U	4T • 22:		40.35:	••	••	33.49:	led lab
	lcense	and i		Re- :	: ports:	••	••	••	Num-:	ber:	••	9	••	300:		· / T	••	1,43:	••	••	85: 466:	ıd skil
			•••	Per:	100	miles:	of:	travel:	: Dol- : Num-: Dol-	lars:		1.00;	••	.30:	· · ·	T.00		:06*	••	••	.85:	new parts and skilled labor on repairs
		h repairs 1/	••	Per:	truck:	per:	:year :		01-	lars.	·••	10.00:	••	19.45:		70° 74	••	24.32:	••	••	: 21.14:	
		Cash		. Re- :	ports:	••		•	Num-: D	ber	••	9	•••	300:		7.7	••	143:	**	••	: 466:	tlay f
	••		••	: Motor :	:trucks:ports:truck	••	••	•••	Num-	: per :	••	9	••	300		·		143 :			466 :	cash ou
			Size	of:	motor	trucks	(tons)					ଭ ା 4		٦.	11.	- <u>4</u> -	1-	- - cs	,,	Total or	average	1/ Normal cash outlay for

2/ Represents the value, at 1933 rates for labor, of the normal time spent on repair work on trucks.

 $\overline{2}$ / Average of all trucks.

Table 7. - Average first cost, age in 1933, years of useful life, calculated depreciation and interest charge for motor trucks of different sizes. Northern Great Plains

Size of	:			: :	Deprecia	tion 1/	: Interes	t 2/
motor	:Motor	:Average	: Average	:Useful:	* 1 ***********************************	:Per 100	•	:Per 100
truck	:trucks	: first	age in	:life :	Per truck	:miles. of	:Per truck	:miles of
(tons)	:	: cost	: 1933	: :	per year	: travel	:per year	: travel
	:Number	:Dollars	Years	: Years:	Dollars	:Dollars	: Dollars	:Dollars
<u>3</u> 4	6	750	8.2	11.5	65.22	: 6.52	22.50	2.25
1	300	869	7.0	10.8	80.46	3.32	26.08	1.07
14	17	1557	6.1	10.0	155.70	5.81	46.71	1.74
11/2	: 143	916	4.7	9.0	101.78	3.78	27.49	1.02
Total or average		907	6.3	10.2	88.92	: : 3.56	27.22	: 1.09

^{1/} Depreciation was computed by dividing the first cost of the truck by the estimated years of useful life.

Table 8. - Total cost of using motor trucks of different sizes, Northern Great Plains

			UI Oc	& U :	T Ter Tilo				
Size of	:	:	•	-	Total	co	st 1/		
motor	:Mo to r	:Travel	: Per truck	·po	r year	:	Per 100 mila	es of travel	
truck	:trucks	: per	excluding	Ĵ	including	:	excluding	::including	
(tons)	:	: year	: interest	:	interest	:	interest	: interest	
	:Number	: Miles	: Dollars	:	Dollars	:	Dollars	: Dollars	
<u>3</u>	: 6	1000	117.87	:	140.37	:	11.79	14.04	
1	300	2427	171.67	:	197.75	:	7.07	8.15	
14	17	2682	275.70	:	. 322.41	:	10.28	12.02	
12		2694	213.70	:	241.19	:	7.93	8.95	_
Total or average		2500	187.04	:	214.26	:	7.48	8.57	

^{1/} Based on normal consumption of fuel and oil at prices paid in 1933, normal outlay for cash repairs, and normal days of labor on repairs at 1933 rates for labor. Depreciation was computed by dividing the first cost by the estimated years of useful life. Interest was charged at 6 percent of one-half the average first cost of the motor trucks.

Data from tables 5, 6, and 7.

^{2/} Charged at the rate of 6 percent of one-half the average first cost of motor trucks.

Table 9. - Quantity and cost of fuel and cylinder oil consumed by motor trucks of different sizes, Pacific Northwest 1/

												
	Size of	:		•			7 (9)					
	mot or	:	Motor	: Annual		Ga so				Cylind		
	truck	:	trucks	use	Per	truck:	Per 10	0 miles:	Per	truck:	Per 10	O miles
	(tons)	:		:	per	year:	of	travel:	per	year:	of t	ravel
		:	Num-	•	Gal-	:Dol- :	Gal-	:Dol- ::	Gal-	Dol-:	Gal-:	Dol-
		:	ber	: Miles :	lons	:lars :	lons	:lars	lons	lars:	lons:	lars
	1 .	:	92	3087	246	41.25	0.5	: 1.33:	9.7	5.80	.31	.19
	12	:	93	4557		63.85	8.5	1.40	14.1	9.03	. 31	.20
	2	:	8	1875	159	26:96	8.5	1.44	6.2	3.66	•33	.20
		:				·		:		•		
		:	· ····································	:	:	: :		;	;	:	:	
T	otal or	:		•		: :		;		:	:	
દ્ય	verage	:	193	3745	310	:51.55:	8.3	: 1.38:	11.7	7.27:	•31:	.19

^{1/} Based on normal consumption of gasoline and cylinder oil, at prices paid in 1933.

Table 10. - Cost of cash repairs, license, tires, tubes, and insurance, and labor on repairs for motor trucks of different sizes, Pacific Northwest

Cash repairs License, tires, tubes; License, tires, tires, tires, Hired Cost 2/2	Cost 2/	: Per	00T : 40	ick : miles	er : of	ar :travel	5/ : 5/	- Tod: -I	rs : lars	.10 .20	.59 : .14	7.53 : .40	.59 : .17
License, tires, tubes License, tires, tubes License, tires, tubes License, tires, tubes License	••	Per:	: 100) : Pe	: miles:tru	e de la po	travel:yea	. /5	-1001-	: Days : 141	.02 : 6.	oi: 6.59		.02 6
License, tires, tubes License, tires, tubes License, tires, tubes License, tires, tubes License	on reprirs		de- : Per	orts:truck	: ber	:yeur	: 3/	: - wr	r : Days		22 .4		9 64
License, tires, tubes License, tires, tubes License, tires, tubes License, tires, tubes License	Labor.		: 100	:miles :po	; of	:truvel:	: /< :	短.	Days : pe		60.	.17:	90
License, tires, tubes License, tires, tubes License, tires, tubes License, tires, tubes License	wher and f	••	e- : Per	rts:truck	: ber	:year	: 3/	:-um	er : Days			8: 3-1	62 . 2.1
Cash repairs License, tires	tubes;		Per : R	: 100 : po	miles:	Jo	travel:	Dol- : I				3.62	1.39
Cash repairs 1/ au Dr	ense, tirus		- : Per	ts: truck	: per	:year		n-: Dol-	r: lurs	2 : 46.21	3 : 56-75	3 . 67.88	3 : 52.19
Cash repairs Dr. Re- Per Sks. ports: truck per "year the ber Bol- per Der Bol- St. 22.50: 38 38 32.50:	:Lico				miles:	: Jo	ravel:	Dol- : Llur	lars : be			1.73:	.89 19
Cass Cass	h repairs			••		••	÷.	1	: lars :	: 27.72:	38.30	32.50	55.26
	: (2,3))r : Re-	:ks:ports	••	••	••	1- : Num-	: per		26 : 2		191

1/ Normal cash outlay for new parts and skilled labor on repairs in machine shops.

2/ Represents the value, at 1933 rates for labor, of the normal time spent on repair work on trucks.

3/ Average of all trucks.

Table 11. - Average first cost, age in 1933, years of useful life, calculated depreciation and interest charge for motor trucks of different sizes, Pacific Northwest

Size of motor truck (tons)	:Motor :trucks	Average first	Average age in	Useful life	Per truck	Per 100 miles of	Interest Per truck: per year	Per 100 miles of
	:Number	Dollars	Years	Years	Dollars	: Dollars:	Dollars	Dollars
1	92	877	6.3	9.4	93.30	3.02	26.29	.85
12	93	926	4.0	8.2	112.93	2.48	27.78	.61
2	8	1547	6.4	9.0	171.89	9.17	46.41	2.47
Total or average	-	···~928	5.2	8.8	105.45	2.82	27.84	•74

Depreciation was computed by dividing the first cost of the truck by the estimated years of useful life.

Table 12. - Total cost of using motor trucks of different sizes, Pacific Northwest

Size of	:	:	Total cost 1/			
motor :	Motor	: Travel	Per truck per year : Per 100 miles of travel			
	trucks	: per	excluding:	including	: excluding	: including
(tons)	•	: year	: interest :	interest	: interest	: interest
	: Number	: Miles	Dollars :	Dollars	: Dollars	Dollars
1	92	3087	220.38	246.67	7.14	7.99
12	93	4557	287.95	315.73	6.32	6.93
2	8	: 1875	310.42	356.83	16.56	19.03
Total or average		3745	256.11	283.95	6.84	7.58

^{1/} Based on normal consumption of fuel and oil at prices paid in 1933, normal outlay for cash repairs, and normal days of labor on repairs, at 1933 rates for labor. Depreciation was computed by dividing the first cost by the estimated years of useful life. Interest was charged at 6 percent of one-half the average first cost of motor trucks.

Data from tables 9, 10, and 11.

^{2/} Charged at the rate of 6 percent of one-half the average first cost of motor trucks.

